



Phase 2 Activity Report October 11, 2021

ITEM DESCRIPTION: **PROGRESS REPORT**

GENERAL NOTES:

1. Refinery De-Inventory Plan Phase 2, has been put on hold during the period of transition of LBR employees to Contractor. The sequence of the scheduled activities remains the same.
2. The Phase 2 activities are being re-programmed to commence October 15, 2021.
3. Phase 2 was still on hold until No 8 Flare CEMS troubleshooting is completed & receipt of the flare 48" expectable blind gaskets.

• **HIGHLIGHTS – WEEK ENDING – October 11, 2021 No 8 Flare**

1. Period September 26 to October 4, 2021
 - i. No 8 Flare system was blinded including the purge gas line
 - ii. **No process units were opened to the flare**
 - iii. The flare KO Drums, were also insulated (block valves before the flare blind) to the All-process unit were kept with corresponding flare heaters blocked in (single isolation)
 - iv. No. 7 vaporizer and fuel gas system remained isolated
2. Fuel Gas CEMS – Continuous Emission Monitoring System
 - a. System continued to be isolated as the no 7 vaporizer and fuel gas system were kept down while working at the No 8 Flare CEMS and Panametric probes
3. Flare 8 CEMS and Panametrics flow meter No 8 Flare CEMS
 - i. Panametrics representative was on site Sept 30 and October 1, 2021
 - i. Flare header probes nozzles were hydro blasted cleaned to eliminate particulates and erroneous flow indications
 - ii. Probes re-installed and initiated calibration with Panametrics personnel; final check of the system is scheduled for October 12, 2021
 - iii. Panametric to issued detailed report (emails) indicating all activities performed and recommendations
 - ii. Extrel continued testing of the systems:
 1. Analyzer probes nozzle was found with the same type of debris and sludge as found at the Panametric probe.
 2. System was cleaned and is on schedule for the final check with Extrel on October 12, 2021
4. H2S Scavenger system continued to be fully functional

• **IoMosaic Independent Observer**

- i. Mr. Wesley Wong validated the flare system blinds location
- ii. Mr. Wong also observed the work being done with the CEMS analyzer; conducted a detailed review of the CEMS and Panametrics data with environmental department and analyzer technicians
- iii. Mr. Wong is on schedule for October 12, 2021 field walk the no. 7 vaporizer and fuel balance drums system to validate that the system only sees purchase propane, which will be the source of supplemental gas and purge gas
- iv. On call 24/7

• **EPA – OSC – On-Scene – Coordinator**

- i. Continued to have a minimum of twice a day conversation with EPA- OSC on activities and schedules
- ii. Were notified that all activities associated with Phase 2 were put on hold until after No 8 Flare CEMS were resolved.
- iii. Had a meeting with LBR personnel to address scope of work associated with the SO₂/H₂S Ambient Monitoring Stations Telemetry installation
- iv. Will be notified before any warm circulation or steam degassing activities occur



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- **SO₂/H₂S Ambient Monitoring Stations Telemetry**
 - ✓ LBR personnel started the fabrication of stands and brackets for the installation of the analyzers
 - ✓ Conducted a joined field survey with EPA-OSC to assure that both parties agreed on the expected configuration of the installation and spare parts needs based on EPA field experience
- **Conducted the following activities not requiring the use of the flare system in OSBL piping appurtenant to process units**
 - ✓ Kerosene system in between unit: de-inventoried and water flushed: material displaced to storage
 - ✓ HAGO- (Heavy Atmospheric Gas Oil) system in between units: initiated displacement and water washing; material being displaced to storage
 - ✓ Naphtha system in between units; being prepared for displacement and water flush
- **The following units that were never inventoried with hydrocarbon were blinded and nitrogen blanketed for long term preservation**
 - ✓ Par-Isom unit
 - ✓ Disulfide unit

Process units remained as previous week

- **No 5 Crude Unit**
Ready to start heat -up and warm circulation
- **No. 3 Vacuum**
Ready to start heat -up and warm circulation
- **No 4 Hydrobon**
Pump out step – 90 % completed
- **No 4 Platformer Unit**
Pump out step – 90 % completed
- **No. 3 Hydrobon**
Completed pump out
- **No. 6 DD – Distillate Desulfurizer**
Pump up 80% completed
- **No. 7 DD – Distillate Desulfurizer**
Pump out – 90% completed
- **No. 9 DD – Distillate Desulfurizer**
Pump out – 100% completed

PROJECTION FOR THE PERIOD October 11, 2021

- **No 8 Flare CEMS and Panametrics**
 - ✓ Complete the CEMS calibration with Extrel
 - ✓ Completed the Panametrics calibration
- **Remove the flare blinds upon completion**
- **Line up the flares KO Drum**
- **Commission the no 7 vaporizer on purchase propane**
- **Re-establish Phase 2 schedule**
- **Continue flushing the following OSBL piping appurtenant to process units (HAGO and Kerosene)**
- **Continue working with EPA – OSC to apply EPA's lessons learned on field SO₂/H₂S Ambient Monitoring and troubleshooting**
- **ATTACHMENT Refinery De-Inventory Plan Phase 2, issued for execution Rev update: October 11, 2021**